



KNOWLEDGE BASE

Article Type: Instructions

Cable Reel Servicing and Assembling Instructions for; PTS and Trac-A-Rack Cars

Description:

Instructions on "How to" properly service and assemble Cable Reel on a Columbia Machine PTS and Trac-A-Rack Car. Reference drawing # D-465.2.122, 382.710.1

WARNING

Never work on, clean or service this unit, control panel or any machine or open or remove any protective cover, guard, grate, door, or maintenance panel until the power or energy sources has been turned off, locked out / tagged out, and all moving parts have come to a complete stop and or blocked to prevent movement. Machinery is dangerous – avoid personal injury and or death by following manufacture, Local, and OHSA safety procedures. Contact Columbia Machine for safety decals, guards, horns and beacons.

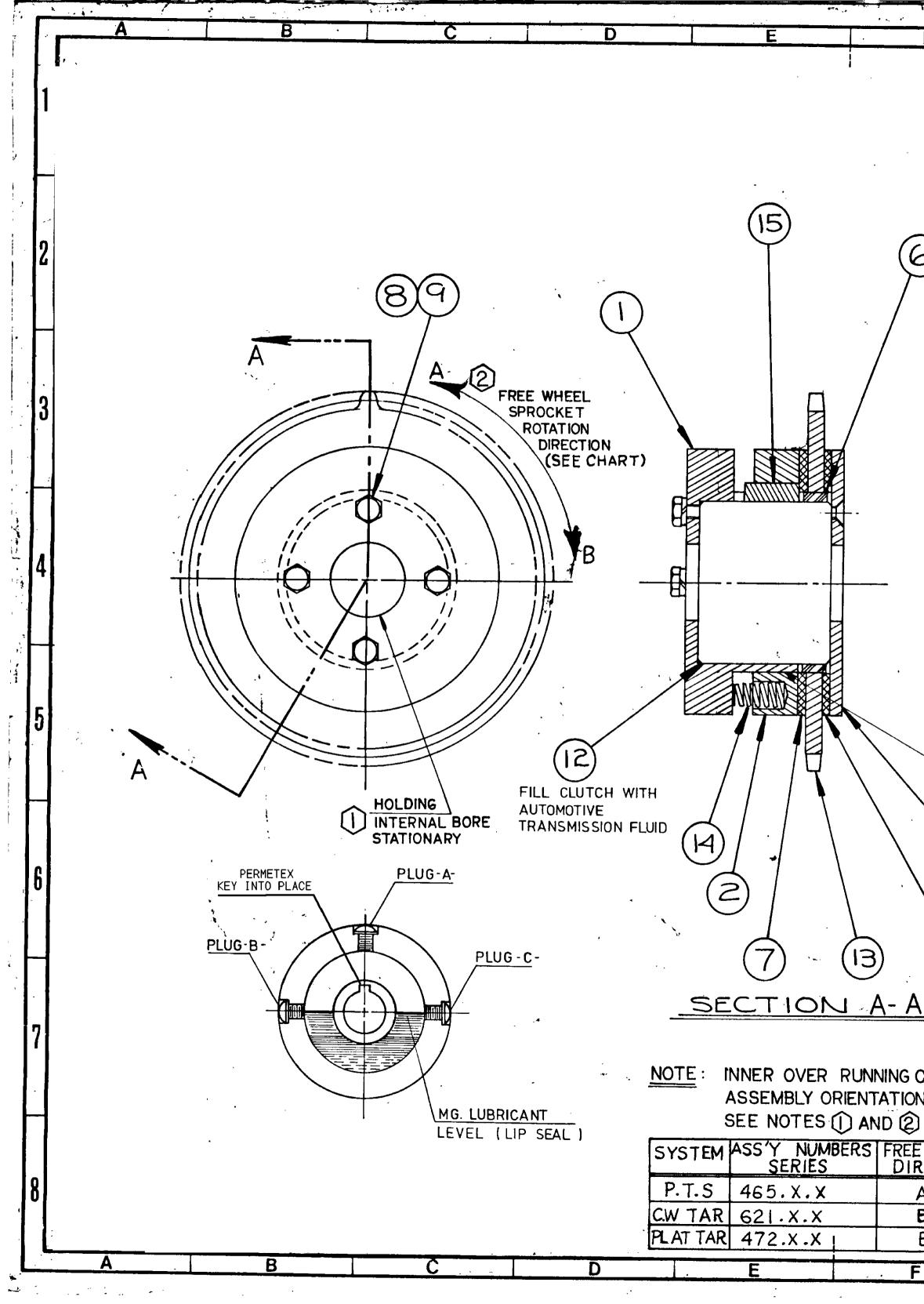


PTS AND TRAC-A-RACK CABLE REEL CLUTCH ASSEMBLY USED ON HYDRAULIC CARS.

The clutch assembly is the same on both PTS and Trac-a-Rac car system. The difference is free-wheeling direction along with direction when mounted on shaft (sprocket in or out). On PTS car the sprocket is closest to the cable drum. Another way to look at it, the countersunk Alan bolts are facing cable reel. On Trac-a-Rac car the sprocket is closer to the outside of the car. Another way to look at this install is the standard hex head bolts are facing the cable reel.

Here are other points of interest when servicing or assembling cable reel clutch assembly.

- We will start with the clutch itself. Notice in middle of the keyway a small hole. Using RTV sealant, apply a small bead to the keyway groove and press key fully into keyway groove. This will seal unit so oil doesn't leak out, when installed.
- Orient the clutch so the three plug screws are located at A,B,C position.
- Remove plug A, use this hole to fill clutch with ATF (automatic transmission fluid).
- Remove either B or C plug for drainage/fill point.
- Once filled with oil, reinstall both plugs tightly.
- Figure out the free direction of clutch for your car. PTS car will free wheel counter clockwise and Trac-A-Rac car types will free wheel clockwise.
- Install the end plate with the counter sunk bolts and tighten.
- If reusing friction parts inspect for wear.
- When reusing friction parts, use 100 grit sandpaper to remove glazing and rough up friction areas.
- Next, make sure they are clean and oil free. Using brake clean or something like this will assure clean and oil free parts.
- Refer to print number 465.2.122 below for more details. Also fine the cable drum drag kit information.



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